

CARVER COLLEGE OF MEDICINE

COURSE DESCRIPTIONS

for

Visiting Students

2019

Note: Courses listed here have potential to be available to visiting students, but may not be available at time of application

REVISED 3/19/2019

DEPARTMENT OF ANESTHESIA

Co-DIRECTOR: Dr. Andrew Feider
Co-DIRECTOR: Dr. Sapna Ravindranath

CONTACT PERSON: Lorri Barnes
6617 JCP
384-9273

ANES:8401 CLINICAL ANESTHESIA SENIOR ROTATION

OBJECTIVES: **The student will:** Build on the knowledge and experience gained from the two week Anesthesiology elective rotation (ANES:8301). Students will gain more advanced airway management skills. Students will encounter patients with complex medical and surgical conditions. The course will be tailored to meet the need and interest of the student; students will have an opportunity to spend extended time on subspecialty areas (OB, neuro, cardiac, pediatric, regional, ASC, and Pain Clinic). Completion of an academic project (case report and discussion) is a requirement.

This will be achieved through: 1) preoperative, intraoperative, and postoperative care for patients undergoing surgical procedures. 2) direct supervision by a staff anesthesiologist. 3) attendance at conferences and teaching activities of the section, and completion of an academic project.

FACULTY: *Staff*
MAX ENROLLMENT: *4*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Arranged*
PREREQUISITE: *ANES:8301*

ANES:8402 SURGICAL & NEUROSCIENCES INTENSIVE CARE (SNICU)

OBJECTIVES: **The student will:** 1) receive in-depth exposure to continuous invasive and non-invasive monitoring techniques including ECG, pulse oximetry, arterial blood pressure, central venous pressure, pulmonary artery pressure monitoring. 2) gain experience in use of vasoactive drugs. 3) gain experience in managing acid-base and fluid balance alterations associated with critical illness. 4) be introduced to ventilatory management of critically ill patients. 5) have exposure to critically ill patients. 6) have exposure to trauma, transplant, and post-surgical patients in addition it offers a unique opportunity to work in the largest ICU in the state of Iowa and largest Neurosurgical ICU in the state. 7) learn about neurologic monitoring, management of intracranial pressure, management of closed head injuries and exposure to management of other neurologic and neurosurgical emergencies; 8) be exposed to the role of multi-disciplinary management teams with clinical nutrition service, physical therapy, and social work.

This will be achieved through: 1) involvement in the care of critically ill patients in the Surgical and Neurosciences Intensive Care Unit (SNICU) and the Cardiovascular Intensive Care Unit (CVICU) under the supervision of residents, fellows and staff. 2) participation during teaching rounds. 3) attendance at conference seminars and teaching activities provided by the SNICU and the CVICU.

FACULTY: *Dr. Anita Chazhikattu and Staff*
MAX ENROLLMENT *6*
OFFERED: *Closed Thanksgiving Block*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Mindi Allbaugh*
REPORT TO: *Anesthesia Meeting Room, 6505 JCP, 7:30 AM*

DEPARTMENT OF CARDIOTHORACIC SURGERY

COURSE DIRECTOR: Dr. Luis Garcia

CONTACT PERSON: Cate Unruh
1527 JCP
356-4499

CTS:8401 SUB-INTERNSHIP CARDIOTHORACIC SURGERY

OBJECTIVES: **The student will** participate in the diagnosis, preoperative, operative, and postoperative care of thoracic and cardiac patients. He/she will attend all scheduled conferences of the division. **The student will** assume responsibility and act as an intern. These students may concentrate their interest in either cardiac surgery or thoracic surgery. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and a faculty member.

FACULTY: *Cardiothoracic Surgery Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Unruh*
REPORT TO: *Cardiothoracic Fellow, 7:00 am, 1st day.*

DEPARTMENT OF DERMATOLOGY

COURSE DIRECTOR: Dr. Vincent Liu

CONTACT PERSON: Cheryl Moores
40027 PFP
356-1694

DERM:8401 DERMATOLOGY ELECTIVE

OBJECTIVES: **The student will** 1) acquire a deeper familiarity with basic skin anatomy, physiology and pathology; 2) understand the importance of morphology and description of diagnosing cutaneous disease; 3) learn how to perform and document a complete skin examination; 4) learn to generate appropriate differential diagnoses for skin conditions; 5) learn the most common and clinically most significant dermatologic conditions; 6) become familiar with fundamental dermatologic diagnostic techniques; 7) become familiar with minor skin surgical procedures; and 8) formulate appropriate plans for management of patients with dermatologic disease. .

This will be achieved through experience 1) in the UIHC Dermatology Clinic; 2) at the Iowa City VA Medical Center; 3) with specially-scheduled surgery patients; 4) on the UIHC Dermatopathology Service; and 5) with inpatient consultations.

FACULTY: *Dr. Liu and Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cheryl Moores/Patricia Swenka*
REPORT TO: *Dermatology Clinic*

DEPARTMENT OF EMERGENCY MEDICINE

COURSE DIRECTOR: Dr. Olivia Bailey
olivia-bailey@uiowa.edu

CONTACT PERSON: Kelby Kiefer
kelby-kiefer@uiowa.edu
1008 RCP
384-6468

EM:8401 ADVANCED LIFE SUPPORT (*REVISED TITLE FOR 2020*)

OBJECTIVES: Students will undergo an intensive program providing “basic training” in life support skills. This 4 week elective coincides with the emergency medicine intern orientation and is designed for the medical student with a strong interest in specializing in emergency medicine. The month is divided among lectures, demonstrations, skills labs, procedural workshops, small groups, high fidelity simulation, manikin training, cultural and diversity training, wilderness medicine, journal club, and patient care. Students will develop an advanced understanding of prehospital triage, transport, and initial stabilization of critically ill patients. Critical care procedures will be taught through procedural skills labs. Students will complete up to 10 clinical shifts in the department at UIHC.

In the process of the course, students can become certified in Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS). These courses are optional. The fees are as follows:

ACLS self-directed learning module \$120
PALS self-directed learning module \$120

Students will receive training in the recognition and management of common clinical problems as well as critical care training in trauma, respiratory emergencies, cardiovascular emergencies, neurologic emergencies, endocrine emergencies, and septic shock. In addition, special populations will be discussed including pediatrics and geriatrics. The rotation will include a wilderness medicine race at Lake MacBride.

Nearly 100% of the faculty from the Department of Emergency Medicine will teach some aspect of this course, especially residency leadership with oversight by the course director.

COURSE DIRECTOR: *Jon VanHeukelom, MD*
MAX ENROLLMENT: *18*
OFFERED: *7/8/19 ONLY*
7/6/20 ONLY

LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelby Kiefer*
REPORT TO: *0073 RCP*
PREREQUISITES: *Strong interest in Emergency Medicine*
SPECIAL CONDITIONS: *Grading is PASS/FAIL only.*
***Student should not take both ALS
and Transition to Residency***

EM:8402 EMERGENCY MEDICINE UIHC

A 4 week clerkship with emergency medicine residents and faculty in which the principles of acute care medicine and the approach to life threatening disease are emphasized. The student will perform under the close supervision of the staff and resident physicians in the Emergency Department.

Students will be scheduled for 17 shifts. A combination of day, evening, and night shifts including weekdays and weekends is required to maximize exposure to a wide range of patient presentations.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students must attend orientation typically at 8:00 am on the first day of the clerkship followed by a simulation day. Students are required to attend 16 hours of simulation lab and case conferences (typically held on Mondays). Students are additionally required to complete a systems-based practice project and ethics paper. Student evaluation will be based on a combination of ED clinical performance and a multiple-choice final exam.

FACULTY: *Dr. Olivia Bailey*
MAX ENROLLMENT: *8*
OFFERED: *All periods except when ALS is offered*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelby Kiefer*
REPORT TO: *Emergency Department, 8:00 am, 1st day.*
PREREQUISITES: *Completion of Core Clerkships*
SPECIAL CONDITIONS: *All time off requests must be submitted 2 weeks prior to the start of the rotation. Attendance is mandatory at UIHC 1st day of rotation for orientation and simulation day.*

DEPARTMENT OF FAMILY MEDICINE

COURSE DIRECTOR: Dr. Jill Endres

CONTACT PERSON: Meggan Riggan-Rocha
01293-G PFP
384-7517

FAM:8402 UNIVERSITY OF IOWA FAMILY MEDICINE CLERKSHIP

OBJECTIVES: This course will emphasize the outpatient aspects of key components of family medicine, including:

- Continuity of care
- Comprehensive care
- Caring for entire families and caring for patients throughout the lifespan
- Integration of health care in the local community
- Patient education
- Care for acute and chronic diseases

EXPECTATIONS:

- Gain skill in assessment, diagnosis, treatment, and management of patients with common illnesses seen in the ambulatory setting while assigned to the Family Care Center.
- Work collaboratively with the other members of the health care team.
- Attend Family Medicine conferences.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine.

FACULTY: *Jill Endres, M.D., Course Director*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Meggan Riggan-Rocha*

**FAM:8422 UNIVERSITY OF IOWA FAMILY MEDICINE/PSYCHIATRY
FAMILY CARE CENTER, POMERANTZ FAMILY PAVILION**

OBJECTIVES: This course will emphasize the integration of mental and physical health care across the outpatient family medicine and outpatient psychiatry arenas, including:

- Mental health care in the primary care setting
- Primary care for people with severe mental illness
- Continuity of care
- Comprehensive and holistic care
- Caring for entire families and caring for patients throughout the lifespan
- Integration of health care in the local community
- Preventive medicine
- Care for acute and chronic diseases
- Patient education

EXPECTATIONS:

- Gain skill in assessment, diagnosis, treatment, and management of patients with common illnesses seen in the ambulatory setting while assigned to the Family Medicine/Psychiatry Clinic, the Family Medicine Clinic, the rural office in Riverside, the Free Medical Clinic, the Abbe Center for Community Mental Healththe palliative medicine service, and the IMPACT program
- Work collaboratively with other members of the health care team
- Attend conferences in Family Medicine & Psychiatry

FACULTY: *Alison Lynch, MD, Elective Director
Jill Endres, MD, Fam Med Clerkship Director
Anthony Miller, MD, Psychiatry Clerkship Director*

MAX ENROLLMENT: *1*

OFFERED: *All Periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Meggan Riggan-Rocha*

REPORT TO: *Dr. Alison Lynch*

PREREQUISITES: *FAM:8301 and PSYC:8301*

SPECIAL CONDITIONS: ***Student must receive permission from Dr. Endres to register for this course.***

DEPARTMENT OF INTERNAL MEDICINE

COURSE DIRECTOR: Dr. Joe Szot, Vice Chair for Education
Dr. Milena Gebska, Director, Sub-Internship Program

CONTACT PERSON: Kathleen Steenlage
E328-4 GH
356-2333

IM:8410 CLINICAL ALLERGY-IMMUNOLOGY

OBJECTIVES: This subspecialty elective emphasizes experience in the diagnosis and treatment of clinical problems in allergy and immunology, including experience in skin testing, administering immunotherapy, and performing and interpreting pulmonary function tests. The student will assist in the diagnosis and management of asthma, allergic rhinitis, drug allergy, food allergy, urticaria and angioedema, hereditary angioedema and immunodeficiency disease states. Outpatients will be evaluated by the student under supervision of the staff. Students will participate in allergy-immunology conferences weekly including Immunology Grand Rounds (Wed, 1:00 pm, C423-1 GH), the Fellows' Conference (Wed, 2:00 pm), and the Immunology Group Seminars (Wed, 4:00 pm, 283 EMRB).

FACULTY: *Dr. Vogelgesang and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Patty Bruffey Thoene, C42 GH*
REPORT TO: *Deb Even, RN*

IM:8412 CLINICAL CARDIOLOGY

OBJECTIVES: Internal scheduling for this course will be the responsibility of the department.

Emphasis will be to acquire both breadth and depth in the diagnosis and therapeutic problems encountered in clinical cardiology.

The student will participate in the evaluation and decisions regarding patients seen at the Cardiovascular Clinic and/or Cardiovascular in-patient consult service (at the UIHC or VAH for consults). He/she will become familiar with techniques and regimens of management of ischemic heart disease, pre- and post-operative conditions, and the chronic cardiac states seen frequently in clinical cardiology, such as congestive heart failure and valvular heart disease, and management of common rhythm abnormalities. During each week of the rotation there will be an emphasis on one of these topic areas through computer assisted instruction, assigned readings, and meeting with one of our cardiology fellows.

The elective consists of either four weeks on the Clinical Service or two weeks on the Clinic Service plus two weeks on General Cardiology In-patient Consult Service. In general, no more than one student can be assigned to the Cardiology Clinic at one time. If students have preferences as to their assignment during this rotation they should contact Ms. Linda Bang, 6-2028, E-315 GH, as soon as they have been notified of their acceptance into this elective.

COURSE DIRECTOR *Dr. Donald Brown*
FACULTY: *Staff of Cardiovascular Division*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Linda Bang, E-315 GH, 356-2028*
REPORT TO: *Arranged*

IM:8414 CLINICAL ENDOCRINOLOGY

OBJECTIVES: Students electing this course will spend about half of their time in outpatient clinics and the other half on the endocrine consult team. During the outpatient clinic part of the rotation, students will attend endocrine and diabetes clinics every day, working alongside different faculty members. These clinics take place at Iowa River Landing, the University of Iowa, and the VA Hospital. While on consults, students will work with the Endocrine Consult team that consists of a staff physician, an endocrinology fellow and sometimes an internal medicine resident, and will see inpatient endocrine and diabetes consultation patients. When the consult service is not busy, students will also have the opportunity to spend all or part of their morning seeing patients in clinic with a staff physician. For each of these activities students will be expected to perform complete patient evaluations and to develop diagnostic programs and therapeutic plans. Students will also participate in the clinical conferences of the Division.

Conferences to be attended by the student:

- * The Diabetes and Obesity Talks: Mondays 1:00 – 2:00 pm, 1289 Kelch
- * Fellows Curriculum Lecture Series: Mondays 2:00 – 3:00 pm
- * Endocrinology Clinical Conference: Mondays 4:00 – 5:00 pm.
- * Internal Medicine Grand Rounds: Thursdays Noon, Med Alumn Aud
- * Endocrine Grand Rounds: Fridays 7:30 – 8:15 am.

FACULTY: *Dr. Amal Shibli-Rahhal and Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Julianna Lee, phone 3-7842*
REPORT TO: *Assigned Faculty - 8:00 am, 1st day,
or as directed.*

IM:8416 CLINICAL GASTROENTEROLOGY-HEPATOLOGY

OBJECTIVES: Gastroenterologists/Hepatologists are Internists that specialize in care of patients with diseases that impair the function of the esophagus, stomach, small bowel, colon, rectum, liver, biliary system, and/or exocrine pancreas. The goal of this rotation is to familiarize you with the differential diagnosis, evaluation and management of common gastrointestinal and liver disorders.

By the end of the rotation, we expect that:

- 1) You will have refined your ability to obtain pertinent history and exam findings in patients with GI/Liver disease.
- 2) You will be able to identify and understand the management approach to significant (urgent) GI/Liver disease problems in the inpatient and outpatient setting.
- 3) You will be able to understand when and what procedures (endoscopy, liver biopsy, motility studies) are needed to provide diagnostic or therapeutic results.
- 4) You will be able to interpret what the GI/Liver specialist is trying to communicate about the results of these procedures.
- 5) You will be able to interpret some of the important findings of various procedures including biopsies/aspirations taken during procedures.

This will be achieved through:

- 1) Active participation in the Inpatient GI and Inpatient Liver consult services.
- 2) Evaluation of select patients in the GI/Liver outpatient clinics with the consult fellow and attending.
- 3) Observation of invasive procedures performed in the Digestive Diseases Diagnostic and Therapeutic Unit, MICU, and SNICU by GI/Liver clinical faculty.
- 4) Attendance at weekly teaching conferences and pathology seminar.

FACULTY: *Gastroenterology-Hepatology Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Dr. Mariam Naveed, 4553 JCP or
Hilary Humphrey
4608 JCP, 356-2132*
REPORT TO: *Digestive Diseases Clinic*

IM:8418 HEMATOLOGY ONCOLOGY

OBJECTIVES: This elective is designed to increase diagnostic skills in hematology and oncology

The student will learn: 1) the methods and value of clinical staging of common cancers including solid tumors and lymphomas; 2) the principles and practice of rational chemotherapy; 3) the therapy and outpatient management of patients with solid tumors and lymphomas; 4) the principles of palliative care; 5) about hemostatic and thrombotic disorders; 6) the study of blood smears and bone marrow preparations; and 7) the principles and practice of rational therapy for benign and malignant hematological disorders.

This will be achieved through: 1) participation in oncology and hematology inpatient and outpatient consultation and outpatient clinic activities; 2) attendance at division conferences and 3) independent study.

FACULTY: *Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Erin Thompson, C-32 GH, 356-2148*

IM:8422 CLINICAL INFECTIOUS DISEASE

OBJECTIVES: **The student will:** 1) Increase their understanding of the pathogenesis of infectious diseases and of the host's reaction to such disease processes; 2) Increase proficiency in the diagnosis and management of patients with infectious diseases, including the proper use of antibiotics; 3) Learn to apply clinical microbiology to the diagnosis of infectious diseases.

This will be achieved through: 1) Evaluation and follow-up of patients seen by the Infectious Diseases consult service; 2) Participation in daily clinical work rounds; 3) Clinical teaching during daily work rounds; 4) Participation in weekly Infectious Diseases grand rounds; 5) Participation in clinical microbiology rounds.

FACULTY: *Infectious Disease Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Stephanie Cecil*
REPORT TO: *SW5-12 GH Conference Room; 8:15 am*

IM:8426 PULMONARY DISEASE - CONSULTATION SERVICE

OBJECTIVES: **The student will:** 1. Refine history taking and physical exam skills, with emphasis on symptoms and signs common to diseases of the cardiopulmonary system. 2. Learn diagnostic and therapeutic strategies for adult patients with pulmonary disease. 3. Interpret pulmonary function tests and thoracic radiographic studies. 4. Gain exposure to the role of a consulting physician.

This will be achieved through: 1. Participation in the Adult Pulmonary Consult service at University Hospitals. 2. Interpretation of pulmonary function tests with the consult fellow and attending. 3. Review of thoracic imaging studies with the consult fellow and attending. 4. Observation of invasive diagnostic and therapeutic procedures. 5. Attendance at teaching conferences for the Pulmonary Disease and Critical Care Division, held two-to-three times weekly. 6. Present at the clinical case conference on Friday noon (optional).

FACULTY: *Pulmonary faculty on rotational basis.*
MAX ENROLLMENT: 2
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Lakshmi Durairaj, M.D.,
Sam Bredlau, 6-4419*
REPORT TO: *Consult Staff, 8:00 am*

IM:8428 ADULT NEPHROLOGY

- OBJECTIVES:**
1. To understand the use and basic interpretation of specialized tests of renal function
 2. To evaluate and manage patients with acute kidney injury
 3. To assess and manage patients with complex fluid, electrolyte and acid base problems
 4. To manage patients with CKD or ESRD
 5. To understand the indications and modalities for renal replacement therapy
 6. To understand the evaluation and management of patients with HTN

Students on the Nephrology Consult Service are integral members of our patient care team and are afforded the opportunity to assume significant responsibilities and play a vital role in the clinical and educational activities of the Division of Nephrology. During the adult nephrology rotation the student will become acquainted with a wide variety of challenges and experiences encountered in the practice of clinical nephrology. Students will participate in rounds on the in-patients at UIHC (no on-call responsibilities) and will be assigned to one ½ day ambulatory renal clinic per week at either UIHC or the VAMC. In addition students will attend teaching conferences of the Nephrology Division and participate in daily review of renal test questions.

FACULTY: *Dr. Antes and Renal Division Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Lisa Novak, E300 GH, 356-3446*
REPORT TO: *Office of Lisa Antes, E329 GH*

IM:8434 CLINICAL RHEUMATOLOGY

- OBJECTIVES:** **The student will:** 1) increase his/her understanding of rheumatic diseases; 2) increase his/her skill in medical diagnosis of these diseases; 3) will learn the principles of management of patients with these diseases; 4) participate in clinical conferences.

This will be achieved through: 1) participation in daily clinical activities; 2) frequent patient-oriented discussion of problems as they arise on the clinical service; 3) independent study.

FACULTY: *Dr. Stafford and all Division faculty members*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Dr. Dee Dee Stafford & Patty Bruffey Thoene*
REPORT TO: *UIHC Rheumatology Clinic, 31205 PFP,
(except Thursdays; VA 1th floor).*

IM:8435 PALLIATIVE CARE

GOALS: Students will become familiar with the basic concepts of the delivery of hospice and palliative care in both the inpatient and outpatient setting. In addition, students will be introduced to the multidisciplinary care for patients with serious illnesses and their families and will work closely with team members of other disciplines.

OBJECTIVES At the conclusion of the rotation, students will be able to:

1. understand the principles of hospice and palliative medicine in the inpatient and home settings including eligibility for hospice care.
2. describe situations in which palliative medicine consultation is appropriate.
3. define effective strategies and techniques for communicating with patients and families especially when communicating bad news.
4. appropriately prescribe opioid and non-opioid drugs for the treatment of pain and to accurately calculate equivalent doses of different opioids.
5. describe assessment and management strategies for non-pain symptoms in patients at the end of life, particularly nausea, dyspnea, anorexia, delirium and terminal restlessness.
6. educate and prepare family and staff for death.
7. work with patients regarding goals of care.
8. explore the emotional and psychosocial aspects of the illness experience and physician grief.

Goals and objectives will be achieved by:

1. assisting with the supervised care for patients on the UIHC Palliative Care Consult Service.
2. participating in educational conferences/meetings including the UIHC Palliative Care Conference and daily report at UIHC.
3. reading about patients encountered while on the rotation.

COURSE DIRECTOR: *Timothy A. Thomsen, MD (Program Medical Director); William David Clark, MD*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Suzanne Streit, phone 467-5426*

REPORT TO:

DEPARTMENT OF NEUROLOGY

COURSE DIRECTOR: Dr. Tracey Cho

CONTACT PERSON: Caroline Martin
8820-20 JPP
384-5094

NEUR:8401 ADVANCED INPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience dealing with diagnosis of patients hospitalized because of neurologic disease. The student will be responsible for the initial assessment outline management plans and will be responsible for daily care, under the supervision of faculty and senior residents. Daily clinical conferences and teaching rounds are included.

FACULTY: *Dr. Cho*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Caroline Martin*
REPORT TO: *S203 GH, 6:45 am on first day.*

NEUR:8402 ADVANCED OUTPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience with the diagnosis and treatment of patients with neurologic disease. The student will be assigned to the Neurology Outpatient Clinic. The student will perform the initial assessment of the patient and through consultation with the faculty, outline the management. Departmental conferences are held daily.

FACULTY: *Dr. Cho*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Caroline Martin*
REPORT TO: *Neurology Clinic Staffing Room,
8:00 am on first day.*

NEUR:8404 SUB-INTERNSHIP IN NEUROLOGY

- OBJECTIVES:** This 4-week course provides opportunities in which the student to do the following
- 1) Develop skills related to the management of patients hospitalized with acute neurological disease (stroke)
 - 2) Gain experience in the diagnosis, evaluation, and treatment of patients with stroke in the emergency department setting and on inpatient units
 - 3) Participate in the emergency and acute medical management of patients, including the treatment of comorbid diseases, prevention and treatment of acute complications, initiation the therapies to prevent recurrent stroke, and development of plans for recovery and rehabilitation, including discharge planning.

SUPERVISION: The student will have direct patient care under the supervision of the faculty and senior level residents or fellows.

Patient care responsibilities:

The student will have appropriate management responsibilities for all aspects of patient care.

- 1) The student will follow assigned patients who are admitted for critical care to the surgical and neuroscience intensive care unit
- 2) The student will be involved in evening call on the stroke service
- 3) The student is expected to develop plans for evaluation and treatment of patients.
- 4) The student is expected to prepare clinical notes and orders that can be forwarded to faculty and residents.
- 5) The student is expected to join the stroke-team huddles in which allied health professionals also are present.

Conferences: The student is expected to be a participant in our daily stroke rounds and noon conferences.

Evaluations; Student performance is assessed using the standard CCOM evaluation forms. The performance is based on the ACGME core competencies for resident education. The student is expected to provide an evaluation of his/her experience on the rotation.

FACULTY: *Dr. Cho*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Caroline Martin*
REPORT TO: *S203 GH, 6:30 am on first day.*

DEPARTMENT OF NEUROLOGICAL SURGERY

COURSE DIRECTOR: Dr. Matthew Howard

CONTACT PERSON: Carol Bontrager
1617 JCP
353-7902

NSG:8401 SUB-INTERNSHIP NEUROSURGERY

OBJECTIVES: This advanced clinical clerkship is designed for students interested in neurologic diseases. There will be emphasis on the diagnosis of neurologic disorders as well as operative therapy. **The student will** be expected to attend related conferences with Radiology and Neurology. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and faculty member. Evaluation will be based upon the ward performance.

FACULTY: *Dr. Howard and Staff*

MAX ENROLLMENT: *2*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Carol Bontrager*

REPORT TO: *Student will receive email from department.*

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

COURSE DIRECTOR: Dr. Sarah Shaffer

CONTACT PERSON: Sally Fisher
51210-B PFP
384-8654

OBG:8401 HIGH RISK ANTEPARTUM OBSTETRICS SUB-INTERNSHIP

OBJECTIVES: Under supervision by an upper level resident and faculty member, the student will be responsible for managing many of the high risk patients admitted to the Obstetric Service and will order diagnostic studies and follow their course. He or she will develop expertise in various diagnostic procedures such as non-stress testing and biophysical profiles. The student will be evaluated by direct observation.

Under resident, fellow and staff supervision, the student will see specific patients in the High Risk clinics. At the daily conferences the student will present the patients he or she has evaluated and will participate in the discussion concerning other patients. The student will be evaluated by direct observation and evidence based written questions related to ultrasound diagnosis and procedures.

He or she may work-up complicated patients admitted to the labor room and assist in their evaluation. He or she may be involved in the intrapartum care and delivery of the high risk obstetric patient. The student will be evaluated by direct observation.

Application of evidenced based medicine to maternal Fetal Medicine. In addition to the above activities, the teaching goals will be achieved through completion of one formal referenced paper of a specific problem in Maternal-Fetal Medicine chosen by the student and one of the faculty members. The student will be evaluated by an evidence based paper.

FACULTY: *Drs. Stephen Hunter, Jennifer Niebyl,
Mark Santillan, Nina Nuangchamnong, Janet
Andrews, Andrea Greiner, and Kimberly Leslie*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Nina Nuangchamnong*

REPORT TO: *31323 PFP at 8:00 am*

OBG:8402 GYNECOLOGIC ONCOLOGY SUB-INTERNSHIP

OBJECTIVES: Develop competency in the evaluation and management of hospitalized patients with serious and often complex gynecologic oncology problems.

- GOALS & OBJECTIVES:**
1. Develop a better understanding of diagnosis, evaluation, and management of patients with a variety of gynecologic malignancies.
 2. Participate in direct patient care under the supervision of faculty and senior-level residents. The student's experiences will consist predominantly (more than 80%) of inpatient responsibilities.
 3. The student will develop proficiency in the management of postoperative gynecological cancer patients, with emphasis on clinical decision-making and development of management plans.
 4. The subintern will assume an appropriate level of management responsibility for all aspects of patient care. Specifically, the student will participate in admissions, write postoperative admission orders, and write discharge summaries.
 5. The student will develop proficiency in postoperative wound care and placement of nasogastric tubes, and the student will participate in other on-floor procedures as appropriate.
 6. The student will become proficient in the management of postoperative fluid, electrolyte, and acid-base disorders.
 7. The student will learn to independently diagnose and evaluate postoperative pain, and develop an understanding of postoperative pain management.
 8. The sub-intern will learn to semi-independently manage postoperative patients with anemia and malnutrition.
 9. The student will learn to independently identify critically ill patients who require immediate attention and may have to be transferred to an intensive care setting.
 10. The student will demonstrate proficiency in documenting clinical activities (admission notes, progress notes, discharge notes, and orders) in the medical record.
 11. The student will learn to function appropriately in a clinical management team including nursing staff, students and residents, social service workers, ward clerks, and other support.

- EVALUATION METHODS:**
1. The student will be evaluated by direct observation from faculty and residents.
 - A. The student will be supervised and interact closely on a daily basis with the residents and the faculty staff. Daily/weekly feedback regarding notes, decision-making, and management plans will be provided.
 - B. The subintern will attend the weekly Gynecologic Oncology Tumor Conference.
 - C. At the end of the rotation, the student will present an appropriately referenced topic in gynecologic oncology of his/her choice, illustrated by a patient seen during the rotation.

FACULTY: *Drs. David Bender, Michael Goodheart, Jesus Gonzalez-Bosquet, Emily K. Hill, and Megan McDonald*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Emily K. Hill*

REPORT TO: *In-Patient Gynecologic Conf. Room
3 JPW (Elevator 1), 7:00 am.*

Contact Dr Hill or senior resident on service the Friday prior to start.

OBG:8403 REPRODUCTIVE ENDOCRINOLOGY

OBJECTIVES: **The student will:** 1) increase his/her understanding and proficiency in evaluation, diagnosis, and treatment of patients with infertility, amenorrhea, recurrent pregnancy loss, and other gynecological endocrinopathies. All will be evaluated by each faculty member the student worked with in clinics, OR's ab other settings including imaging (ultrasound, HSG), IVF, etc. All evaluations will then be aggregated and submitted to Med Hub along with the student's grade. In addition to the above, student s presentation to the division on a topic he/she chooses will be used to evaluate CCOM objectives. 2) increase his/her understanding and ability to evaluate patient pre-operatively, and care for patients post-operatively in the hospital. As a member of a team caring for patients with infertility, reproductive endocrine system disorders, and benign gynecologic conditions; the student will function as a sub-intern under close supervision by upper level resident and faculty members.

This will be achieved through: 1) active participation in the Reproductive Endocrinology-Infertility Clinic two days a week; 2) participation in related major in-patient and minor out-patient surgical procedures including pre and post-operative evaluation and care; 3) attendance at weekly student lectures, participation and assistance in performing hysterosalpingograms one afternoon per week, assistance in performing pelvic ultrasounds throughout the week, and study of assigned reading material. Students will be expected to select and complete one referenced presentation of a specific problem in reproductive endocrinology.

This elective is designed to accommodate students planning to take further training in Obstetrics & Gynecology.

FACULTY: *Drs. Brad VanVoorhis, Hakan Duran,
Ginny Ryan, Jessica Kresowik, Abey Eapen,
and Rachel Mejia. Elizabeth Graf, PA
and Dana Aybout El Sayed, ARNP*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Hakan Duran*

REPORT TO: *Ob/Gyn Outpatient Clinic, 3rd Floor PFP,
8:00 am*

DEPARTMENT OF OPHTHALMOLOGY

COURSE DIRECTOR: Dr. Pavlina Kemp

CONTACT PERSON: Michelle Snyder
11290 PFP
356-2921

OPHT:8401 EXTERNAL EYE DISEASE

OBJECTIVES: Intended for students interested in learning about the most common non-refractive eye disorders.

The student is expected to: 1) learn basic techniques of eye examination; 2) learn to diagnose common diseases of the eyelids, conjunctiva, and cornea; 3) learn basic principles of therapeutics of external eye disease.

This will be achieved by: 1) reading assignments; 2) daily conferences; 3) clinical work-up of patients; 4) self-assessment programs.

The student will be evaluated throughout the elective and at its completion.

FACULTY: *Mark Greiner, M.D.*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Michelle Snyder*
REPORT TO: *Arranged*
PREREQUISITE: *OPHT:8301*

OPHT:8402 NEURO-OPHTHALMOLOGY

OBJECTIVES: Intended for students with an interest in Neurology, Neurosurgery, Internal Medicine, or Ophthalmology.

The student is expected to learn the diagnosis and management of neuro-ophthalmic problems (visual loss, diplopia, field loss, pupil dysfunction).

This will be achieved by working up patients in the Neuro-ophthalmology Clinic and presenting them to the faculty.

FACULTY: *Matthew Thurtell, MBBS, MSc, FRACP*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Michelle Snyder*
REPORT TO: *Arranged*
PREREQUISITE: *OPHT:8301*

DEPARTMENT OF ORTHOPEDICS AND REHABILITATION

COURSE DIRECTOR: Dr. Charles Clark
CO-DIRECTOR: Dr. Jose Morcuende

CONTACT PERSON: Amy Candelario
01016R JPP
353-7951

ORTH:8407

ORTHOPEDICS - ADULT HIP/KNEE RECONSTRUCTION

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Blue Team-adult hip and knee reconstruction service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8408**ORTHOPEDICS - TRAUMA**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Red Team-trauma service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8409**ORTHOPEDICS - PEDIATRICS**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Green Team-pediatrics service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8410**ORTHOPEDICS - SPORTS MEDICINE**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Black Team-sports medicine service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8411**ORTHOPEDICS - HAND, WRIST, ELBOW**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Yellow Team-hand, wrist, elbow service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8412**ORTHOPEDICS - SPINE**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Orange Team-spine service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

ORTH:8413**ORTHOPEDICS - PATHOLOGY/TUMOR AND FOOT/ANKLE**

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Silver Team-tumor, foot, and ankle service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: *Orthopedic Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Amy Candelario, 01016R JPP*
REPORT TO: *Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP*
SPECIAL CONDITIONS:

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the VA service-general Orthopedics; 2) duties will be analogous to those of an intern with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY:	<i>Orthopedic Staff</i>
MAX ENROLLMENT:	<i>1</i>
OFFERED:	<i>All periods</i>
LENGTH OF ELECTIVE:	<i>4 weeks</i>
ADMINISTRATIVE CONTACT:	<i>Amy Candelario, 01016R JPP</i>
REPORT TO:	<i>Dr. Clark, 01075 JPP/Dr. Morcuende, 01023JPP</i>
SPECIAL CONDITIONS:	<i>Must have completed an advanced clinical orthopedics course as prerequisite</i>

DEPARTMENT OF OTOLARYNGOLOGY

COURSE DIRECTOR: Dr. Scott Graham

CONTACT PERSON: Jodi Klein
21154 PFP
356-1744

OTO:8402 ADVANCED OTOLARYNGOLOGY

OBJECTIVES: **The student will:** 1) become proficient in the physical examination of the head and neck; 2) increase his ability to diagnose, evaluate and manage common disorders of the ears, nose, and throat; 3) work in the outpatient clinic, on inpatient services, and in the operating room.

This will be achieved through: 1) examination of a large number of patients; 2) assuming interns level responsibility inpatient care; 3) independent study; 4) exposure to the operating room if desired.

FACULTY: *Staff*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Jodi Klein*
REPORT TO: *Oto Clinic, 8:00 am*

DEPARTMENT OF PATHOLOGY

SENIOR CONTACT PERSON: Vicky Farrington-Howrey
C683 GH
356-0319

PATH:8401 AUTOPSY PATHOLOGY CLERKSHIP

OBJECTIVES: **The student will:** 1) increase his/her knowledge of the gross and histologic morphology of a wide variety of diseases and injuries; 2) learn the basic aspects of the postmortem examination and clinicopathologic correlation; 3) become acquainted with the role of the autopsy and medical examiner in quality control, public health and medicolegal death investigation; and 4) improve basic case presentation skills.

These objectives will be achieved by: 1) assisting in the complete postmortem examination; 2) reviewing charts as part of the autopsy examination; and 3) participating in weekly autopsy conferences and brain cutting sessions; and 4) participating in scheduled didactic sessions.

Students will have some opportunity for exposure to surgical pathology.

FACULTY: *Dr. Stephanie Stauffer, Dr. Dennis Firchau,
Dr. Marcus Nashelsky and other anatomic
pathology faculty attending on the autopsy
service*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 weeks*

ADMINISTRATIVE CONTACT: *Deb Stumme*

REPORT TO: *Autopsy Services, E140 GH*

PATH:8402 HEMATOPATHOLOGY CLERKSHIP

OBJECTIVES: **The student will:** 1) develop proficiency in the evaluation of peripheral blood and bone marrow, lymph node, and body fluid cell evaluation; 2) increase skills in recognition of benign and malignant disorders of the hematopoietic system; 3) learn the appropriate laboratory work-up of anemia, thrombocytopenia/thrombocytosis, leukocytic disorders, and suspected hemoglobinopathy/thalassemia; 4) increase understanding of the functioning of the hematology laboratory; and 5) correlate hematologic findings with molecular, flow cytometric and cytogenetic laboratory findings.

This will be achieved through: 1) performance of written reports on peripheral blood and bone marrow cases; 2) attendance at daily review of bone marrows and abnormal peripheral blood and body fluid films; 3) observation of performance of bone marrow aspiration and biopsy procedures; 4) review of hemoglobin electrophoresis cases in conjunction with CBC data, blood smear findings, and clinical history; 5) attendance at hematopathology and lymphoma conferences.

FACULTY: *Drs. S. Bhagavathi, S. Syrbu, C. Holman and C.
Zhao*

MAX ENROLLMENT: *1*

OFFERED: *All Periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Deb Stumme*

REPORT TO: *Dr. C. Holman, 6229 RCP, 6-3981*

SPECIAL CONDITIONS: *Instructor consent required.*

PATH:8403 SURGICAL PATHOLOGY

OBJECTIVES: 1) To become acquainted with the contributions to and limitations of tissue examination to patient care, 2) to learn basic aspects of tissue examination and approaches to anatomic diagnosis, 3) to be exposed to a variety of diseases at the gross and microscopic level.

The student will actively participate in surgical pathology by: 1) observing the gross and assisting in the microscopic examination, clinical pathological correlation and report preparation of current surgical and medical specimens, 2) participating in daily surgical pathology conferences.

FACULTY: *Dr. Anthony Snow and Staff*
MAX ENROLLMENT: *2*
OFFERED: *Closed March*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Lynn Westphal*
REPORT TO: *Surgical Pathology, 5244 RCP*
SPECIAL CONDITIONS: *Scheduling approval Dr. Snow*

PATH:8404 TRANSFUSION MEDICINE

OBJECTIVES: To be exposed to common activities and functions of a comprehensive transfusion service. Upon completion of the clinical clerkship the student will:

- 1) Understand the preparation of and indications for the transfusion of components such as platelets, plasma, RBC's and cryoprecipitate.
- 2) Participate in Morning Report and be aware of common indications for therapeutic apheresis and therapeutic phlebotomy, and the common risks and complications associated with these procedures.
- 3) Answer requests from the clinical services regarding the transfusion of blood components and special services (e.g., therapeutic plasma exchange).
- 4) Observe specific procedures such as: plasmapheresis, photopheresis, therapeutic phlebotomy, and peripheral blood progenitor cell collection.
- 5) Participate in an offsite blood drive with DeGowin Donor Center Staff (optional).
- 6) Be familiar with Blood Bank procedures and regulations including knowing techniques of erythrocyte typing, compatibility testing, antibody detection and antibody identification. Students will participate in specific procedures including pretransfusion compatibility testing, RBC typing and antibody screen.
- 7) Be able to apply knowledge of Transfusion Medicine to other specialties of obstetrics, anesthesia, medicine, and surgery.
- 8) Give a 30 min presentation on a Transfusion Medicine topic.

Students performing a 4 week rotation (Monday–Friday only) will have progressively more lab electives, pager coverage and will be expected to give a short case presentation at CP morning report.

FACULTY: *Drs. M. Knudson, A. Schlueter and J. Blau*
MAX ENROLLMENT: *1(2 with Medical Director Approval)*
OFFERED: *All periods – based on availability of an open trainee slot in the DeGowin rotation schedule*
LENGTH OF ELECTIVE: *2/4 weeks No Holidays or weekends.*
ADMINISTRATIVE CONTACT: *Deb Stumme*
REPORT TO: *Hannah Born, 9:00 am,
DeGowin Blood Center SW246 GH*

DEPARTMENT OF PEDIATRICS

COURSE DIRECTOR: Dr. Vanessa Curtis, M.D.

CONTACT PERSON: Cathy Chavez
356-7824
BT 2015 22 GH

PEDS:8406 PEDIATRIC ALLERGY & PULMONOLOGY

OBJECTIVES:

The student will within the limits of time available:

1. Learn to obtain a historical data base to make the diagnosis of and characterize the following problems:

- a) Asthma
- b) Cystic fibrosis
- c) Bronchiectasis
- d) Bronchopulmonary dysplasia
- e) Interstitial lung disease
- f) Anatomical disorders of the respiratory tract
- g) Rhinitis
- h) Atopic dermatitis
- i) Urticaria
- j) Angioedema
- k) Anaphylaxis
- l) Stinging insect reactions

2. Learn to perform and interpret pulmonary function testing in children and to combine this information with history, physical, chest x-ray, and blood gases in defining physiological abnormalities of the lower airway. 3. Be able to appropriately choose, perform and interpret skin tests for inhalant allergens, and demonstrate an understanding of the indications and limitations of these tests. 4. Learn appropriate environmental, immunological, and pharmacologic management of the diseases listed under #1. 5. Review the basic science areas of immunology, physiology, and pharmacology related to the diagnosis and treatment of the diseases listed under #1. **These goals will be achieved through** exposure to ambulatory patients in the clinics and the performance of consultations on in-patient and out-patients. Students will assist in performing and interpreting pulmonary function testing on their own and other patients. Educational reading material and library references will be available.

FACULTY: *D. Bayer, A. Fischer, P. Ghera,
P. McCray, C. Randak, S. Sheets, and T. Starner*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.*

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8407 PEDIATRIC CARDIOLOGY

OBJECTIVES: This elective would be suitable for students with an interest in pediatrics, family practice and cardiology. The student will learn the skills required to assess the cardiovascular status of a child in an outpatient situation.

The rotation focuses on enhancing physical exam skills and physiology knowledgebase from a cardiovascular perspective. Students will learn to clinically integrate cardiovascular physiology with physical findings and laboratory tests. An emphasis will be placed on learning to differentiate innocent versus organic heart murmurs. By the end of the rotation, students should be able to explain the mechanism for the production of heart sounds and murmurs, distinguish normal from abnormal cardiovascular signs and symptoms and explain normal cardiac physiology as it applies to interpreting physical exam or laboratory tests. Students will have the opportunity to participate in all cardiology clinical activities including inpatient rounds, outpatient clinics, cardiac radiography, teaching conferences; including cardiac catheterization conferences, surgical conferences, journal club and seminars in pediatric cardiology are held weekly. The elective is well-structured, yet can be tailored to meet individual interests.

FACULTY: *O. Aldoss, R. Ashwath, M. Bansal,
R.E. Edens, U. Gupta, I. Law, L. Ochoa, B.
Reinking,
T. Scholz, and B. Thattaliyath*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback.*

Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation.

Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8408 PEDIATRIC GASTROENTEROLOGY

OBJECTIVES: **The student will** increase his proficiency in the diagnosis, management and treatment of various diseases of the gastrointestinal tract, liver and pancreas and their nutritional consequences during infancy and childhood. A greater depth of knowledge concerning normal and abnormal nutrition will also result.

The objectives will be achieved through: 1) Participation in clinical activities such as daily ward rounds, consultations on pediatric patients with GI problems, outpatient clinics, and diagnostic procedures such as endoscopies; 2) Attending teaching and patient management conferences.

FACULTY: *D. Al-Zubeidi, W. Bishop,
D. Ebach, E. Hannah, C. Newland, R. Rahhal,
and A. Uc*

MAX ENROLLMENT: *2*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.*

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8409 PEDIATRIC HEMATOLOGY/ONCOLOGY

OBJECTIVES: **The student will** learn current diagnostic and therapeutic approaches to children with disorders of red blood cells, white blood cells, platelets, and coagulation. Students will observe the multidisciplinary approach used for the treatment of children with oncologic diagnosis. Students will gain experience in current measures for evaluation and treating children with oncologic diseases. Students will be able to recognize common hematologic abnormalities by examination of peripheral blood smear and bone marrow specimens.

The above goals will be achieved by attending pediatric hematology/oncology out-patient clinics. Students will participate in the initial diagnostic evaluation of patients referred to the Pediatric Hematology-Oncology Service, interpret the microscopic examination of blood smears and bone marrow specimens, and complete a selective reading list.

FACULTY: *D. Gordon, A. Modi, S. O'Dorisio, M. Sato, A. Sharathkumar, J. Staber, W. Terry, and Y. Vyas*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.*

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8410 PEDIATRIC NEUROLOGY

OBJECTIVES: **The student will:** Increase proficiency in doing a neurologic examination on infants, children and young adults. Students will develop competence at obtaining a neurologic history, including developmental history and genetic history. The student will learn an approach to diagnosing and managing common and rare neurologic problems in childhood, including seizures, developmental delay, neurocutaneous disorders and muscular dystrophy. Through exposure to patients in follow-up visits, the student will learn the natural history of common neurologic disorders. Students will learn to use written and computer based resources and interpret the results of laboratory testing (CT, MRI, EEG) in the diagnostic evaluations.

These goals will be achieved through: Clinical activities will be focused on the outpatient clinic, with limited involvement in the inpatient service and consult service. The student will see patients independently and staff them with an attending. Students will participate in clinical conferences, and will be expected to read selected readings in pediatric neurology. Students will be expected to participate in the weekly child neurology clinical conference.

FACULTY: *A. Bassuk, A. Boes, D. Bonthius, M. Ciliberto,
K. Mathews, S. Matsumoto, and
L. Zhorne*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and
will use these for the basis of their midrotation
feedback.*

*Students are expected to upload a picture of the
completed and signed midrotation form to ICON to
receive full credit.*

*All students will write and upload to ICON a 1-page
reflection of their experience at the end of the rotation.
Students are responsible for initiating on-line
evaluations and for completing the CCOM Clerkship
Evaluation.*

PEDS:8412 DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS

OBJECTIVES: 1. Understand the normal developmental sequence of childhood, and the impact of environmental influences. 2. Be aware of the antecedents of selected developmental disabilities including ADHD, autism, intellectual and physical disabilities. 3. Identify methods to detect cognitive and motor delays in infancy. 4. Identify methods to detect physical and cognitive delays in the preschool child. 5. Understand the long-term consequences of developmental disabilities. 6. Work with an interdisciplinary team and understand its advantages in addressing developmental disabilities.

FACULTY: *M. Leyser, D. Lin-Dyken, D. McBrien, A. Reasoner,
L. Strathearn, and S. Tuwar*

MAX ENROLLMENT: *1*

OFFERED: *All blocks*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop goals for their rotation (1 goal/week). Students completing a 4-week rotation will use their goals as the basis of their midrotation feedback. A picture of the completed and signed feedback form must be uploaded to ICON in order to receive full credit. ALL students will write a 1-page reflection of their experience and upload it to ICON. Students are required to initiate on-line evaluations and to complete the CCOM Clerkship Evaluation.*

PEDS:8415 MEDICAL GENETICS FOR THE SENIOR STUDENT

OBJECTIVES: The minimum length of this elective is 4 weeks. Longer periods of time may be arranged with the permission of the instructor.

Students participate in clinical activities of the Division of Medical Genetics, Stead Family Department of Pediatrics. This may include General Genetics Clinics, Connective Tissue Disorder Clinics, Neurofibromatosis Clinics, Metabolic Clinics or Outreach Clinics. Clinics are held at the University of Iowa Children's Hospital, Iowa River Landing, North Liberty and at designated Outreach sites throughout the state.

Students also participate in weekly Genetics Journal Club, weekly Clinical and Molecular Genetics Case Review Conference and participate in weekly rounds for inpatients. Students assist in the evaluation and counseling of referred patients. Opportunities exist for students to be exposed to laboratory techniques of chromosome and/or DNA analysis through the Shivanand R. Patil Cytogenetics and Molecular Genetics Laboratory.

The student will present a 10 minute case review at the end of the rotation.

Primary emphasis during this elective is to prepare the student to recognize and feel competent with genetic birth defect problems present in his/her future patients. A wide variety of genetics and birth defect problems will be seen. Clinical applications are stressed.

FACULTY: *J. Bernat, A. Calhoun, B. Darbro, V. Sheffield, and A. Sidhu*

MAX ENROLLMENT: *1*

OFFERED: *All Blocks*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback.*
Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.
All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation.
Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8421 PEDIATRIC ENDOCRINOLOGY

OBJECTIVES: The student will increase his/her knowledge of and proficiency in the diagnosis, management, and treatment of pediatric endocrine diseases such as growth disorders (short stature, tall stature, delayed puberty, precocious puberty), thyroid disorders (hypothyroidism, hyperthyroidism, thyroid nodules), diabetes mellitus, diabetes insipidus, dysgenetic syndromes, ambiguous genitalia, adrenal insufficiency or adrenal steroid excess, and hypopituitarism.

These objectives will be achieved primarily through participating in outpatient endocrine clinics but will also include consultation on inpatients with pediatric endocrine problems when appropriate. Students will also attend weekly division case conference, journal club, and combined endocrine grand rounds.

FACULTY: *N. Bansal, V. Curtis, K. Larson-Ode, A. Norris,
L. Pesce, M. Tansey, E. Tsalikian,*

MAX ENROLLMENT: *1*

OFFERED: *All Blocks*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.*

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

PEDS:8431 PEDIATRIC NEPHROLOGY

- OBJECTIVES:**
- Become familiar with the pathophysiology, diagnosis and management of pediatric kidney disease and hypertension.
 - Become familiar with the assessment of kidney function based on serum creatinine, estimated/measured GFR, urinalysis, and blood pressure.
 - Recognize the abnormal clinical findings, urinalysis and laboratory markers of glomerular disease.
 - Understand the impact of congenital kidney abnormalities on long-term kidney and voiding function.
 - Become familiar with the stages of chronic kidney disease and the side effects associated with CKD.
 - Become familiar with the assessment of fluid balance, especially as it pertains to a patient with kidney disease or acute kidney injury.
 - Appreciate the impact that end-stage renal disease, dialysis, and kidney transplant have on the lives of our patient and their families.
 - Appreciate the impact of acute kidney injury on the clinical course and outcomes of critically ill patients.

At the end of a four week rotation, the student will be able to:

- Perform a physical exam with attention to physical findings pertinent to patients with kidney disease.
- Be able to classify a pediatric blood pressure reading as normal, pre-hypertension, stage 1 or stage 2 hypertension using the 4th report tables.
- Be able to calculate eGFR using the updated Schwartz formula
- List the side effects of chronic kidney disease
- Develop basic differential diagnoses for common nephrology issues (e.g., gross hematuria, proteinuria, acute kidney injury, hypertension).

Key Responsibilities of the student:

- No night call or weekends are required.
- Students will rotate with both the inpatient service and outpatient clinic providers. The schedule will be tailored to individual interests as much as possible, so please let us know if there are particular areas on which you wish to focus.
- Students will write the notes for all patients they are following (including consult notes, daily progress notes and clinic notes).
- Students will attend all educational activities of the service as outlined in the weekly schedule.
- All senior students will be asked to prepare a 15-20 minute Powerpoint learning issue on the nephrology topic of their choice to be presented on the last Tuesday afternoon of their rotation.

FACULTY: *L. Harshman, J. Jetton, K. Lee-Son,
J. Misurac, C. Nester, and D. Zepeda-Orozco*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *See ICON*

EVALUATIONS: *Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.*

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

DEPARTMENT OF PSYCHIATRY

COURSE DIRECTOR: Dr. Jess Fiedorowicz

CONTACT PERSON: Teresa Young
2880 JPP
353-6963

PSYC:8401 ADULT INPATIENT PSYCHIATRY

OBJECTIVES: This advanced elective offers the opportunity to study clinical psychiatry in greater depth. Elective clerks carry a smaller case load than residents, but are otherwise expected to act as junior residents with staff supervision. Clerks also participate in a program of directed readings, didactic seminars, and clinical conferences. Feedback on directly observed clinical interviews will be provided. Options include general adult psychiatry, geriatrics, mood, or psychotic disorders/neuropsychiatry. Student learning will emphasize assessment to develop a foundation of skills in clinical interviewing, mental status examination, differential diagnosis, and formulation. Psychotherapeutic and pharmacological management approaches will be emphasized. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: *Dr. Carissa Gunderson*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:
SPECIAL CONDITIONS

PSYC:8402 CHILD PSYCHIATRY

OBJECTIVES: This elective offers the student the opportunity to study in depth the behavioral manifestations of psychiatric disorders in children and adolescents. The elective will include both inpatient and outpatient experiences so that students have an opportunity to observe how psychiatrists diagnose and treat acute and chronic disorders in children. Outpatient clinic experiences will include diagnostic evaluations, medication follow-ups, and full team evaluations. Students will also have the opportunity to observe neuropsychological and psychological evaluations. Students also participate in a program of clinical readings, didactic seminars, and clinical conferences. This elective is well-suited for the student who is planning a career in pediatrics. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: *Dr. Carissa Gunderson*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:
SPECIAL CONDITIONS

PSYC:8403 ADULT OUTPATIENT PSYCHIATRY

OBJECTIVES: This elective offers students the opportunity to study outpatient psychiatry and emergency management of psychiatric patients. Students will be expected to participate with more independence in the diagnostic assessment of new patients in the clinic, as well as to assist senior residents in the evaluation and treatment of patients with psychiatric emergencies. An emphasis will be placed on the further development of psychiatric interviewing skills and diagnostic assessment skills. Students will be exposed to both psychotherapeutic and psychopharmacologic treatment modalities. Observation of group psychotherapy and participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective. The elective will be tailored as possible to the student's interests, including exposure to the University Adult Psychiatry Outpatient Clinic, the VA Adult Psychiatry Outpatient Clinic, geriatric evaluations, addictions treatment, and community psychiatry sites. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: *Dr. Alison Lynch*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:

PSYC:8404 WOMEN'S WELLNESS & COUNSELING SERVICE

OBJECTIVES: Fourth year medical students can pursue a Women's Mental Health senior elective in the Women's Wellness and Counseling Service (WWC) at the University of Iowa Hospitals and Clinics and at the VA Women's Clinic. During this four week rotation, students will have the opportunity for greater autonomy in evaluation and treatment of women with mental illness with a special emphasis on pregnant and postpartum women. They will be expected to participate in case conferences, attend regularly scheduled educational activities in women's mental health, prepare a presentation for the WWC service, and develop a working knowledge of fundamental literature in this field. The majority of clinical and educational activities will be devoted to women's mental health. Depending on in the interests of the student, other psychiatric learning activities will be arranged during this rotation. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: *Dr. Hristina Koleva*
MAX ENROLLMENT: *1*
OFFERED: *Closed June/July/Aug*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Arranged*

PSYC:8405 SUB-INTERNSHIP MEDICAL PSYCHIATRY

OBJECTIVE: The Medical Psychiatry Clerkship is designed to provide hands-on experience in the evaluation and treatment of patients with combined medical and psychiatric disease. The fourth year student under the supervision of residents in both medicine and psychiatry will learn to make appropriate medical and psychiatric diagnoses while considering the relationship of these conditions. The student will act at subintern level selecting appropriate consultations, diagnostic tests, and treatments. The student will be expected to develop familiarity with the etiology and pathophysiology of the conditions being treated, review potential complications, and develop skills in direct interactions with the patients to facilitate team-teaching and patient care. The student is required to prepare and present an article at the Medicine-Psychiatry noon conference. Contact Dr. Vicki Kijewski for details about the noon conference schedule at the beginning of the elective. Participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective.

FACULTY: *Dr. Vicki Kijewski*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:

PSYC:8408 SUB-INTERNSHIP MOOD/PSYCHOTIC DISORDERS

OBJECTIVE: The sub-internship in adult psychiatry will provide an experience for the student that maximizes autonomy and responsibility. The inpatient rotation will focus on one sub-specialty area (psychotic disorders or mood disorders) and emphasize the substantial other medical co-morbidity. The sub-Intern will be expected to assess and address the medical and psychiatric needs of their assigned patients in a collaborative and integrative fashion. Students will be expected to assess and manage their patients independently at the level of a psychiatry intern, reporting directly to the attending. Call is required. The didactic curriculum focuses on critical appraisal of the medical literature.

FACULTY: *Dr. Jess Fiedorowicz*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:

PSYC:8409 EATING DISORDERS

OBJECTIVES The elective in eating disorders will provide an experience for the student that maximizes autonomy and responsibility. The inpatient or partial hospital rotation will emphasize the co-occurring psychiatric and co-morbid medical conditions associated with the eating disorders. Students will be expected to assess and manage their patients at an advanced level. Students will provide direct patient care and engage in clinical decision making for complex patients with substantial co-morbidity. The didactic curriculum focuses on critical appraisal of the relevant medical literature. Students will be introduced to cognitive behavioral psychotherapy techniques. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: *Dr. Carissa Gunderson*
MAX ENROLLMENT: *1*
OFFERED: *All Periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *-*

DEPARTMENT OF RADIOLOGY

COURSE DIRECTOR: Dr. Maheen Rajput
Dr. Shawn Sato

CONTACT PERSON: Lucy Fasano
3875 JPP
467-5463

RAD 8401 ADVANCED CLINICAL RADIOLOGY

OBJECTIVES: This elective is intended for students who want to improve their radiologic abilities whether or not they plan to pursue a career in radiology. The course consists of 4 one-week blocks in the radiologic subspecialties of the student's choice. This is a hands-on rotation in which the student will become a full member of the clinical team participating in all aspects of patient care including radiologic procedures. In addition, there is a program of lectures, case presentations, and guided self-instruction to update the student on the latest regarding integrating diagnostic and interventional imaging into patient management.

Upon successful completion of the rotation, the student will be able to: 1) develop differential diagnoses of common pathology based on radiographic imaging, and 2) understand the appropriate integration of radiologic imaging into patient management.

FACULTY: *Drs. Maheen Rajput and Shawn Sato*
MAX ENROLLMENT: *6*
OFFERED: *All periods, except 11/19/18 block*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Lucy Fasano*
REPORT TO: *3567 JCP at 9:00 am*
SPECIAL CONDITIONS: *Must be dropped 4 weeks prior to the beginning of the section.*

RAD 8402 VASCULAR AND INTERVENTIONAL RADIOLOGY

OBJECTIVES: The purpose of this elective is to expose the student to the broad range of diagnostic and therapeutic procedures performed by Interventional Radiology. Interventional radiology is a subspecialty of Radiology, which is responsible for the performance of a wide array of percutaneous, vascular and non-vascular procedures. These include angiography, angioplasty, vascular reconstructions, vascular embolization, percutaneous nephrostomies, biliary drainage, and placement of custom devices in the vascular tree and elsewhere.

Students in this elective will join the clinical interventional service, staff, fellows and residents. You will be expected to participate in the diagnostic workup and management of interventional patients as well as in the performance of selected interventional procedures. You will be involved in the daily readouts and teaching on the interventional clinical service and participate in interventional and interdisciplinary interventional conference, and familiarize yourself with research opportunities.

FACULTY: *Sandeep Laroia, M.D.*
MAX ENROLLMENT: *2*
OFFERED: *All periods pending approval of Dr. Laroia*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Lucy Fasano*
REPORT TO: *Dr. Sandeep Laroia*

DEPARTMENT OF RADIATION ONCOLOGY

COURSE DIRECTOR: Dr. John Buatti

CONTACT PERSON: Shawn Reynolds
01626 PFPW
356-2699

RADO:8401 RADIATION ONCOLOGY

OBJECTIVES: Students are involved directly with the patient care and management under the immediate supervision of the faculty. They rotate through all five clinical services:
1. Head and Neck Carcinoma, 2. Thoracic, 3. GI/GU/Metastases,
4. Lymphoma/CNS/Pediatric, 5. Gynecological/Breast/Sarcomas

Under the direction of the faculty, the students evaluate patients for radiotherapy and help plan the course of radiotherapy treatments. They also participate in the discussion regarding these patients in multidisciplinary tumor boards and departmental conferences. The students are exposed to a variety of neoplasms and attend the multidisciplinary conferences relating to their patients.

The goal of the course is to expose the student to the field of radiation oncology and cancer management, and give them an understanding of the interactions of radiation therapy, chemotherapy, and surgery.

FACULTY: *John Buatti, M.D.*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Shawn Reynolds*
REPORT TO: *Dr. John Buatti, 01626 PFPW, 7:30 am*

DEPARTMENT OF SURGERY

COURSE DIRECTOR: Dr. Luis Garcia

CONTACT PERSON: Cate Unruh
1527 JCP
356-4499

SURG:8401 ADVANCED GENERAL SURGERY

OBJECTIVES **Students on senior electives in surgery** will increase their knowledge by focusing on a specific area of surgical practice with a particular full-time faculty member, serving as a preceptor. The students will strengthen their clinical skills in perioperative patient assessment and management, in use of diagnostic studies pertinent to the surgeon's practice, and assisting or performing procedures under direct supervision.

ACTIVITIES **A broad range of clinical activities** in the operating room, clinics, wards, and intensive care units is possible depending on the preceptor's practice. This may also include night and/or weekend call activity at the discretion of the preceptor. However, more than 40 but less than 80 total hours of clinical activity should be expected.

FACULTY: *Department of Surgery Faculty*

MAX ENROLLMENT: *5*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cate Unruh*

REPORT TO: *Contact Cate Unruh for information for the first day of clerkship*

SPECIAL CONDITIONS: *No more than one senior student can be on a general surgery team with junior students on their required clerkship, whether those students are doing electives or sub-internships. Coordinator will request team preferences prior to rotation start date.*

SURG:8402 SUB-INTERNSHIP IN SURGERY

OBJECTIVES: **Sub-interns will** improve students' clinical skills by assuming an intern's level of responsibility for the assessment and management of a limited number of patients, under the direct supervision of a senior surgery resident. The sub-interns will increase their proficiency with perioperative patient assessment and management, including selecting and interpreting appropriate laboratory and radiologic studies. Sub-interns may also participate in procedures, but at least 80% of their time should be spent managing in-patients.

Sub-interns will accomplish this by working as a member of a surgical resident team, including approximately weekly night/weekend call at the same time as a faculty member on the team so that the sub-interns may participate in the entire spectrum of patient management from the stage of initial surgical consultation.

Sub-interns will be asked to submit goals and strategies for achieving their goals in advance. The chief residents will be asked to review and revise these goals as appropriate. At the end of the month, sub-interns will be asked to review how these goals have been met with the course director, residency program director, or chair of surgery.

FACULTY: *General Surgery Staff*
MAX ENROLLMENT: *5*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Unruh*
REPORT TO: *Contact Cate Unruh for information for the first day of clerkship*
SPECIAL CONDITIONS: *Only one student per team. Coordinator will request team preferences prior to rotation start date.*

DEPARTMENT OF UROLOGY

COURSE DIRECTOR: Dr. Chad Tracy

CONTACT PERSON: Bridget A. Fahey
3244 RCP
353-7871

URO:8401 ADVANCED GENERAL UROLOGY

OBJECTIVES: The student will become an integral member of the team, functioning at the PGY-1 level (i.e. responsible for histories and physicals on admission, daily inpatient rounds, attending surgery, and seeing patients in the urology clinic). The student will be given graded responsibility for as much as possible in surgical cases.

FACULTY: *Dr. Tracy*
MAX ENROLLMENT: *2*
OFFERED: *All blocks*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Bridget A. Fahey*
REPORT TO: *Dr. Tracy*
SPECIAL CONDITIONS: *Students considering a Urology residency are encouraged to meet with Dr. Tracy.*

URO:8402 PEDIATRIC UROLOGY

OBJECTIVES: Under the direction of the urology resident assigned to the pediatric service as well as the pediatric urology faculty, the senior student is expected to participate in the evaluation of clinical patients and the care of selected surgical patients, including preoperative evaluation, intraoperative assistance, and postoperative care. The student is encouraged to work under a close mentor-student relationship to develop skills in pediatric urology.

FACULTY: *Drs. Cooper, Storm, and Lockwood*
MAX ENROLLMENT: *1*
OFFERED: *All blocks, limited in May and September*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Bridget A. Fahey*
REPORT TO: *Dr. Tracy*

URO:8403 UROLOGIC ONCOLOGY: MULTISPECIALTY APPROACH

OBJECTIVES: The student will have a multispecialty exposure to the diagnosis and treatment of patients with current and newly diagnosed urologic malignancies. The student will spend on average 1-2 days per week in either medical oncology or radiation oncology and the remainder of the time in either the urology oncology clinic or ORs. The student will attend the urology conferences, specifically indications, radiology, and pathology, in addition to the bi-monthly multispecialty tumor board. This course is designed for students planning to enter into primary care and have an interest in oncology or men's health issues and for students with an interest in urology.

FACULTY: *Drs. O'Donnell, Brown, Tracy, Nepple, Gellhaus,
and Pearlman*

MAX ENROLLMENT: *1*

OFFERED: *All blocks, limited in November and December*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Bridget A. Fahey*

REPORT TO: *Dr. Tracy*